

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	307	320/129,130,131.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/25 18:30
S2	418	S1 or 205/646.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/25 18:31
S5	8	S2 and sulfation	US-PGPUB; USPAT	OR	ON	2007/04/25 18:35
S6	30	S2 and sulfat\$3	US-PGPUB; USPAT	OR	ON	2007/04/25 19:03
S7	19	S6 and (pulse with current)	US-PGPUB; USPAT	OR	ON	2007/04/26 11:06
S8	10	("3487282"   "3510746"   "3700997"   "3890556"   "3936718"   "4385269"   "5307000").PN. OR ("5701069").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 18:56
S9	1	S8 and sulfat\$3	US-PGPUB; USPAT	OR	ON	2007/04/25 19:01
S10	27	"4871959"	US-PGPUB; USPAT	OR	ON	2007/04/25 19:03
S11	25	"5084664"	US-PGPUB; USPAT	OR	ON	2007/04/25 19:03
S12	18	"5276393"	US-PGPUB; USPAT	OR	ON	2007/04/25 19:03
S13	14	"5491399"	US-PGPUB; USPAT	OR	ON	2007/04/25 19:03
S14	14	S10 and sulfat\$3	US-PGPUB; USPAT	OR	ON	2007/04/25 19:03
S15	12	S11 and sulfat\$3	US-PGPUB; USPAT	OR	ON	2007/04/25 19:03
S16	14	S12 and sulfat\$3	US-PGPUB; USPAT	OR	ON	2007/04/25 19:03
S17	8	S13 and sulfat\$3	US-PGPUB; USPAT	OR	ON	2007/04/25 19:03
S18	11	S14 and (pulse with current)	US-PGPUB; USPAT	OR	ON	2007/04/25 19:04
S19	8	S15 and (pulse with current)	US-PGPUB; USPAT	OR	ON	2007/04/25 19:04
S20	9	S16 and (pulse with current)	US-PGPUB; USPAT	OR	ON	2007/04/25 19:04
S21	7	S17 and (pulse with current)	US-PGPUB; USPAT	OR	ON	2007/04/25 19:04

## EAST Search History

S22	13	(S18 or S19 or S20 or S21) and second	US-PGPUB; USPAT	OR	ON	2007/04/25 19:05
S23	13	(S18 or S19 or S20 or S21) and seconds	US-PGPUB; USPAT	OR	ON	2007/04/25 19:06
S24	11	(S18 or S19 or S20 or S21) and (seconds same current)	US-PGPUB; USPAT	OR	ON	2007/04/25 19:06
S25	14	"5491399"	US-PGPUB; USPAT	OR	ON	2007/04/26 10:58
S26	307	320/129,130,131.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/26 11:06
S27	418	S26 or 205/646.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/26 11:06
S28	30	S27 and sulfat\$3	US-PGPUB; USPAT	OR	ON	2007/04/26 11:06
S29	5	S28 and (pulse with current) and (pulse with width)	US-PGPUB; USPAT	OR	ON	2007/04/26 11:20
S30	307	320/129,130,131.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/26 11:20
S31	418	S30 or 205/646.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/26 11:20
S32	30	S31 and sulfat\$3	US-PGPUB; USPAT	OR	ON	2007/04/26 11:20
S33	19	S32 and (pulse with current) and (current same (time or seconds))	US-PGPUB; USPAT	OR	ON	2007/04/26 12:45
S34	2	"6229287"	US-PGPUB; USPAT	OR	ON	2007/04/26 12:45
S35	6	"5677075"	US-PGPUB; USPAT	OR	ON	2007/04/26 12:45
S36	1	S35 and (pulse with current)	US-PGPUB; USPAT	OR	ON	2007/04/26 13:06
S37	3	("5652497"   "5677075").PN. OR ("6730428").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 12:56
S38	9	"5677612"	US-PGPUB; USPAT	OR	ON	2007/04/26 12:58
S39	6	S38 and (pulse with current)	US-PGPUB; USPAT	OR	ON	2007/04/26 13:12
S40	26	"5063341"	US-PGPUB; USPAT	OR	ON	2007/04/26 13:12
S41	16	S40 and (pulse with current)	US-PGPUB; USPAT	OR	ON	2007/04/26 14:09
S42	1	S31 and (conductor adj skin) with effect	US-PGPUB; USPAT	OR	ON	2007/04/26 14:13

## EAST Search History

S44	2	sulfation and (pulse adj width) and battery and ((conductor adj skin) with effect)	US-PGPUB; USPAT	OR	ON	2007/04/26 14:41
S45	0	("2006/0065547").URPN.	USPAT	OR	ON	2007/04/26 14:14
S46	2	sulfation and ((pulse adj width) same (pulse adj current)) and battery	US-PGPUB; USPAT	OR	ON	2007/04/26 14:15
S47	6	sulfation and ((pulse adj width) and (pulse adj current)) and battery	US-PGPUB; USPAT	OR	ON	2007/04/26 14:15
S48	60	("3553561"   "3579075"   "3586955"   "3629681"   "3663939"   "3816807"   "3963976"   "4016473"   "4183080"   "4214198"   "4237409"   "4246634"   "4302714"   "4320333"   "4355275"   "4363005"   "4366430"   "4371827"   "4386308"   "4388583"   "4388584"   "4389608"   "4396881"   "4513238"   "4568869"   "4584514"   "4609860"   "4695784"   "4697136"   "4750102"   "4843299"   "4871959"   "4882663"   "4947124"   "4965507"   "5049804"   "5063341"   "5084664"   "5172044"   "5254951"   "5274321"   "5276393"   "5289102"   "5290643"   "5291118"   "5463304"   "5491399"   "5525892").PN. OR ("5648714").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 14:40
S50	14	S48 and (pulse adj (width or duration or length))	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 14:41
S51	31	(sulfation or desulf\$7) and (pulse adj (width or duration or length)) and battery and (pulse with current)	US-PGPUB; USPAT	OR	ON	2007/04/26 15:10
S52	29	S51 and charg\$3	US-PGPUB; USPAT	OR	ON	2007/04/26 14:42
S53	1	("2001/0019257").URPN.	USPAT	OR	ON	2007/04/26 14:47

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S54	15	("3748568"   "4956597"   "5166595"   "5200877"   "5307001"   "5523671"   "5744932"   "5754028"   "5804944"   "5808443"   "5828202"   "5895440"   "6037751"   "6184650").PN. OR ("6586913").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 14:53
S55	10	("3487282"   "3510746"   "3700997"   "3890556"   "3936718"   "4385269"   "5307000").PN. OR ("5701069").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 14:58
S56	31	("3629681"   "3761795"   "3816807"   "3839089"   "3963976"   "4213080"   "4274044"   "4390940"   "4626093"   "4644256"   "4695935"   "4736150"   "4740739"   "4786851"   "4795537"   "4871959"   "4878007"   "4931367"   "5027051"   "5043650"   "5045769"   "5140250"   "5250904"   "5256957").PN. OR ("RE35643").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:01
S57	31	("3556849"   "3563800"   "4550064").PN. OR ("4736150").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:26
S58	1	S57 and (sulfation or desulf\$7)	US-PGPUB; USPAT	OR	ON	2007/04/26 15:10
S59	22	("1743594"   "3252070"   "3487284").PN. OR ("3963976").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:14
S61	8	S59 and (pulse adj (width or duration or length))	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:26
S62	31	("3629681"   "3761795"   "3816807"   "3839089"   "3963976"   "4213080"   "4274044"   "4390940"   "4626093"   "4644256"   "4695935"   "4736150"   "4740739"   "4786851"   "4795537"   "4871959"   "4878007"   "4931367"   "5027051"   "5043650"   "5045769"   "5140250"   "5250904"   "5256957").PN. OR ("RE35643").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:18

## EAST Search History

S63	9	S62 and (pulse adj (width or duration or length))	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:18
S64	26	"5063341"	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:26
S65	9	S64 and (pulse adj (width or duration or length))	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:26
S66	3	S65 and sulf\$5	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:47
S67	4	"6184650"	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:47